

STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION



September 16, 2016

Mr. Scott Larson Newagen Seaside Inn, Inc. P.O. Box 29 Newagen Maine, ME 04576 slarson@compassroseevents.com

Sent via electronic mail Delivery confirmation requested

RE: Maine Pollutant Discharge Elimination System (MEPDES) Permit # ME0021229 Maine Waste Discharge License (WDL) Application # W001689-5C-D-R Proposed Draft MEPDES Permit Renewal

Dear Scott Larson:

Enclosed is a **proposed** draft MEPDES permit and Maine WDL which the Department proposes to issue for your facility as a final document after opportunity for your review and comment. By transmittal of this letter, you are provided with an opportunity to comment on the proposed draft permit and its conditions (special conditions specific to this permit are enclosed; standard conditions applicable to all permits are available upon request). If it contains errors or does not accurately reflect present or proposed conditions, please respond to this Department so that changes can be considered.

By copy of this letter, the Department is requesting comments on the proposed draft permit from various state and federal agencies, as required by our new regulations, and from any other parties who have notified the Department of their interest in this matter. If you have any questions regarding the matter, please feel free to call me.

All comments must be received in the Department of Environmental Protection office on or before the close of business <u>Monday, October 17, 2016</u>. Failure to submit comments in a timely fashion will result in the final document being issued as drafted.

AUGUSTA 17 STATE HOUSE STATION AUGUSTA, MAINE 04333-0017 (207) 287-7688 FAX: (207) 287-7826 BANGOR 106 HOGAN ROAD, SUITE 6 BANGOR, MAINE 04401 (207) 941-4570 FAX: (207) 941-4584 PORTLAND 312 CANCO ROAD PORTLAND, MAINE 04103 (207) 822-6300 FAX: (207) 822-6303 PRESQUE ISLE 1235 CENTRAL DRIVE, SKYWAY PARK PRESQUE ISLE, MAINE 04769 (207) 764-0477 FAX: (207) 760-3143 Scott Larson September 16, 2016 Page 2 of 2

If you have any questions regarding the matter, please feel free to call me at (207)-592-7161.

Sincerely,

Clurom Sumon

Aaron Dumont Division of Water Quality Management Bureau of Water Quality <u>Aaron.A.Dumont@maine.gov</u> Phone: 207-592-7161

Enclosure

cc: Bill Johnson, DEP/CMRO Lori Mitchell, DEP/CMRO Alex Rosenberg, EPA David Webster, EPA David Pincumbe, EPA Olga Vergara, EPA Marelyn Vega, EPA Richard Carvalho, EPA DMR Environmental Review IF&W Environmental Review



STATE OF MAINE DEPARTMENT OF ENVIRONMENTAL PROTECTION **17 STATE HOUSE STATION** AUGUSTA, ME 04333

DEPARTMENT ORDER

IN THE MATTER OF

)

NEWAGEN SEASIDE INN, INC. SOUTHPORT, LINCOLN COUNTY, MAINE OVERBOARD DISCHARGE ME0021229 W001689-5C-E-R **APPROVAL**

) MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AND WASTE DISCHARGE LICENSE RENEWAL

In compliance with the provisions of the *Federal Water Pollution Control Act*, Title 33 U.S.C. § 1251, Conditions of licenses, 38 M.R.S. § 414-A, and applicable regulations, the Department of Environmental Protection (Department) has considered the application of the NEWAGEN SEASIDE INN, INCORPORATED (Permittee), with its supportive data, agency review comments, and other related materials on file and FINDS THE FOLLOWING FACTS:

APPLICATION SUMMARY

On August 10, 2016, the Department accepted as complete for processing an application from the Newegan Seaside Inn, Incorporated for the renewal of combination Maine Pollutant Discharge Elimination System (MEPDES) permit ME0021229/Maine Waste Discharge License (WDL) W001689-5C-D-R (permit) which was issued by the Department on November 3, 2011, for a five year term. The permit issued on November 3, 2011, authorized the seasonal discharge (April 1^{st} – October 31^{th}) of no more than 12.500 gallons per day (gpd) of secondary treated wastewater from NEWAGEN SEASIDE INN, INCORPORATED to Cape Newagen Harbor, Class SB water, in Southport, Maine.

PERMIT SUMMARY

This permitting action is carrying forward all the terms and conditions of the November 3, 2011, permit except that this permit is;

- 1. Reducing the monitoring frequency for total residual chlorine from 4/week to 2/month based on a statistical evaluation of the monitoring results for the previous 5 year period.
- 2. Modifying the discharge season to April 1^{st} to November 30^{th} to coincide with the motel's operational season.
- 3. Establishing a monitoring frequency of 1/month for pH.

CONCLUSIONS

BASED on the findings in the attached DRAFT **Fact Sheet** dated September 19, 2016, and subject to the Conditions listed below, the Department makes the following CONCLUSIONS:

- 1. The discharge, either by itself or in combination with other discharges, will not lower the quality of any classified body of water below such classification.
- 2. The discharge, either by itself or in combination with other discharges, will not lower the quality of any unclassified body of water below the classification which the Department expects to adopt in accordance with State law.
- 3. The provisions of the State's antidegradation policy, *Classification of Maine waters*, 38 M.R.S. § 464(4)(F), will be met, in that:
 - (a) Existing in-stream water uses and the level of water quality necessary to protect and maintain those existing uses will be maintained and protected;
 - (b) Where high quality waters of the State constitute an outstanding national resource, that water quality will be maintained and protected;
 - (c) Where the standards of classification of the receiving waterbody are not met, the discharge will not cause or contribute to the failure of the waterbody to meet the standards of classification;
 - (d) Where the actual quality of any classified receiving waterbody exceeds the minimum standards of the next highest classification that higher water quality will be maintained and protected; and
 - (e) Where a discharge will result in lowering the existing water quality of any waterbody, the Department has made the finding, following opportunity for public participation, that this action is necessary to achieve important economic or social benefits to the State.
- 4. The discharges will be subject to effluent limitations that require application of best practicable treatment as defined in *Conditions of licenses*, 38 M.R.S. § 414-A(1)(D) and 414-A(1-B).
- 5. The overboard discharge system was in continuing existence for the 12 months preceding June 1, 1987.
- 6. The Department finds that there are no technologically proven alternative methods of wastewater disposal consistent with the plumbing code adopted by the Department of Health and Human Services pursuant to Title 22, section 42 that will not result in an overboard discharge.

ME0021229 W001689-5C-E-R

CONCLUSIONS (cont'd)

- 7. A publicly owned sewer line is not located on or abutting land owned or controlled by the permittee or is not available for the permittee's use.
- 8. The discharge is not located within the boundaries of a sanitary district or sewer district however connection to the existing infrastructure is not practicable.

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ACTION

THEREFORE, the Department APPROVES the application of NEWAGEN SEASIDE INN, INCORPORATED to seasonally discharge (April 1- November 30) no more than 12,500 gallons per day of secondary treated sanitary wastewater from the NEWAGEN SEASIDE INN, INCORPORATED, Atlantic Ocean, Cape Newagen Harbor, Class SB, in Southport, Maine, SUBJECT TO ALL APPLICABLE STANDARDS AND REGULATIONS AND THE FOLLOWING CONDITIONS:

- 1. "Maine Pollutant Discharge Elimination System Permit Standard Conditions Applicable to All Permits," revised July 1, 2002, copy attached.
- 2. The attached Special Conditions, including any effluent limitations and monitoring requirements.
- 3. This permit becomes effective upon the date of signature below and expires at midnight five (5) years after that date. If a renewal application is timely submitted and accepted as complete for processing prior to the expiration of this permit, the terms and conditions of this permit and all subsequent modifications and minor revisions thereto remain in effect until a final Department decision on the renewal application becomes effective. *Maine Administrative Procedure Act*, 5 M.R.S. § 10002 and *Rules Concerning the Processing of Applications and Other Administrative Matters*, 06-096 CMR 2(21)(A) (amended August 25, 2013).

PLEASE NOTE ATTACHED SHEET FOR GUIDANCE ON APPEAL PROCEDURES

DONE AND DATED AT AUGUSTA, MAINE, THIS	DAY OF 2016.
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DEPARTMENT OF ENVIRONMENTAL PROTECTION

BY:_

PAUL MERCER, Commissioner

Date of initial receipt of application: <u>August 10, 2016</u> Date of application acceptance: <u>August 10, 2016</u>

Date filed with Board of Environmental Protection

This Order prepared by Aaron Dumont, Bureau of Land and Water Quality

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

1. The permittee is authorized to discharge secondary treated sanitary wastewater from **Outfall #001** to Cape Newagen Harbor, Atlantic Ocean, Class SB. Such discharges are limited and must be monitored by the permittee as specified below⁽¹⁾:

April 1st- November 30th

					Minimum		
Discharge Limitations						Monitoring Requirements	
Monthly	<u>Weekly</u>	Daily	Monthly	Weekly	Daily	Measurement	<u>Sample</u>
Average	Average	<u>Maximum</u>	Average	Average	<u>Maximum</u>	Frequency	Type
Report gpd		12,500 gpd				1/Week	Metered
[07]		[07]				[01/07]	[MT]
3.1 lbs./day	4.7 lbs./day	5.2 lbs./day	30 mg/L	45 mg/L	50 mg/L	1/Month	Grab
[26]	[26]	[26]	[19]	[19]	[19]	[01/30]	[GR]
			85%			1/Month	Calculate
			[23]			[01/30]	[CA]
3.1 lbs./day	4.7 lbs./day	5.2 lbs./day	30 mg/L	45 mg/L	50 mg/L	1/Month	Grab
[26]	[26]	[26]	[19]	[19]	[19]	[01/30]	[GR]
			85%			1/Month	Calculate
			[23]			[01/30]	[CA]
			$15/100 m^{-1}$		50/100 ml		Crah
			15/100 ml		50/100 ml	2/Month	Grab
			[13]		[13]	[02/30]	[GK]
					1.0 mg/L	2/Week	Grab
					[19]	[02/30]	[GR]
					6.0 – 9.0 SU	1/Month	Grab
					[12]	[01/30]	[<i>GR</i>]
	Monthly Average Report gpd [07] 3.1 lbs./day [26] 3.1 lbs./day [26]	Monthly Average Weekly Average Report gpd [07] 3.1 lbs./day [26] 4.7 lbs./day [26] 3.1 lbs./day [26] 4.7 lbs./day [26] 3.1 lbs./day 4.7 lbs./day [26]	Monthly Average Weekly Average Daily Maximum Report gpd [07] 12,500 gpd [07] 3.1 lbs./day 4.7 lbs./day 5.2 lbs./day [26] [26] [26] 3.1 lbs./day 4.7 lbs./day 5.2 lbs./day [26] [26] [26] 3.1 lbs./day 4.7 lbs./day 5.2 lbs./day [26] [26] [26] 3.1 lbs./day 4.7 lbs./day 5.2 lbs./day [26] [26] [26] [26]	Monthly AverageWeekly AverageDaily Monthly MaximumMonthly AverageReport gpd $[07]$ 12,500 gpd $[07]$ 3.1 lbs./day4.7 lbs./day5.2 lbs./day30 mg/L $[26]$ $[26]$ $[26]$ $[26]$ $[19]$ 85% $[23]$ 3.1 lbs./day4.7 lbs./day $[26]$ 5.2 lbs./day $[26]$ 30 mg/L $[23]$ 3.1 lbs./day $[26]$ $[26]$ $[19]$ 85% $[23]$ 3.1 lbs./day $[26]$ $[26]$ $[19]$ 15/100 ml $[13]$ <t< th=""><th>Monthly AverageWeekly AverageDaily MaximumMonthly AverageWeekly AverageReport gpd $[07]$12,500 gpd $[07]$3.1 lbs./day $[26]$4.7 lbs./day $[26]$5.2 lbs./day $[26]$30 mg/L $[19]$45 mg/L $[19]$85% $[23]$3.1 lbs./day $[26]$5.2 lbs./day $[26]$30 mg/L $[19]$45 mg/L $[19]$85% $[23]$3.1 lbs./day $[26]$5.2 lbs./day $[26]$30 mg/L $[19]$45 mg/L $[19]$85% $[23]$85% $[23]$15/100 ml $[13]$</br></br></th></t<> <th>Monthly Average Weekly Average Daily Maximum Monthly Average Weekly Average Daily Maximum Report gpd [07] 12,500 gpd [07] 3.1 lbs./day 4.7 lbs./day 5.2 lbs./day 30 mg/L 45 mg/L 50 mg/L $[26]$ $[26]$ $[26]$ $[19]$ $[19]$ $[19]$ $85%$ 3.1 lbs./day 4.7 lbs./day 5.2 lbs./day 30 mg/L 45 mg/L 50 mg/L $[26]$ $[19]$ $[19]$ $[19]$ $[19]$ 85% $[26]$ $[26]$ $[19]$ $[19]$ $[19]$ $[19]$ $[23]$ $[26]$ $[19]$ $[19]$ $[19]$ $[19]$ $[13]$ $[23]$ $[13]$</th> <th>Minimum Discharge LimitationsMonitoring RegMonthly AverageWeekly MaximumDaily Monthly AverageMonthly Meekly AverageMeekly MaximumDaily Meekly AverageMeasurement FrequencyReport gpd $[07]$ $12,500 gpd$ $[07]$ <math>10,000 decee<math>10,000 decee1/Weekly<math>10,000 decee3.1 lbs/day4.7 lbs/day5.2 lbs/day<math>1260 decee30 mg/L<math>1261 decee45 mg/L<math>191 decee50 mg/L<math>119 decee1/Wonth<math>101/301 decee3.1 lbs/day4.7 lbs/day<math>1261 decee5.2 lbs/day<math>1261 decee30 mg/L<math>1261 decee45 mg/L<math>1231 decee50 mg/L<math>119 decee1/Month<math>101/301 decee3.1 lbs/day4.7 lbs/day<math>1261 decee5.2 lbs/day<math>1261 decee30 mg/L<math>1261 decee45 mg/L<math>1231 decee50 mg/L<math>119 decee1/Month<math>101/301 decee3.1 lbs/day4.7 lbs/day<math>1261 decee5.2 lbs/day<math>1261 decee30 mg/L<math>1261 decee45 mg/L<math>1231 decee50 mg/L<math>119 decee1/Month<math>101/301 decee85%<math>1231 decee1/Month<math>101/301 decee15/100 ml<math>131 decee50/100 ml<math>101/301 decee1.0 mg/L<math>123 decee2/Weekly<math>102/301 decee1.0 mg/L<math>123 decee2/Weekly$102/301 decee$</math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></math></th>	Monthly AverageWeekly AverageDaily MaximumMonthly AverageWeekly AverageReport gpd $[07]$ 12,500 gpd $[07]$ 3.1 lbs./day $[26]$ 4.7 lbs./day $[26]$ 5.2 lbs./day $[26]$ 30 mg/L $[19]$ 45 mg/L $[19]$ 85% $[23]$ 3.1 lbs./day $[26]$ 5.2 lbs./day $[26]$ 30 mg/L $[19]$ 45 mg/L $[19]$ 85% $[23]$ 3.1 lbs./day $[26]$ 5.2 lbs./day $[26]$ 30 mg/L $[19]$ 45 mg/L $[19]$ 85% $[23]$ 85% 	Monthly Average Weekly Average Daily Maximum Monthly Average Weekly Average Daily Maximum Report gpd [07] 12,500 gpd [07] 3.1 lbs./day 4.7 lbs./day 5.2 lbs./day 30 mg/L 45 mg/L 50 mg/L $[26]$ $[26]$ $[26]$ $[19]$ $[19]$ $[19]$ $85%$ 3.1 lbs./day 4.7 lbs./day 5.2 lbs./day 30 mg/L 45 mg/L 50 mg/L $[26]$ $[19]$ $[19]$ $[19]$ $[19]$ 85% $[26]$ $[26]$ $[19]$ $[19]$ $[19]$ $[19]$ $[23]$ $[26]$ $[19]$ $[19]$ $[19]$ $[19]$ $[13]$ $[23]$ $[13]$	Minimum Discharge LimitationsMonitoring RegMonthly AverageWeekly MaximumDaily Monthly AverageMonthly Meekly AverageMeekly MaximumDaily Meekly AverageMeasurement FrequencyReport gpd $[07]$ $12,500 gpd$ $[07]$ $10,000 decee10,000 decee1/Weekly10,000 decee3.1 lbs/day4.7 lbs/day5.2 lbs/day1260 decee30 mg/L1261 decee45 mg/L191 decee50 mg/L119 decee1/Wonth101/301 decee3.1 lbs/day4.7 lbs/day1261 decee5.2 lbs/day1261 decee30 mg/L1261 decee45 mg/L1231 decee50 mg/L119 decee1/Month101/301 decee3.1 lbs/day4.7 lbs/day1261 decee5.2 lbs/day1261 decee30 mg/L1261 decee45 mg/L1231 decee50 mg/L119 decee1/Month101/301 decee3.1 lbs/day4.7 lbs/day1261 decee5.2 lbs/day1261 decee30 mg/L1261 decee45 mg/L1231 decee50 mg/L119 decee1/Month101/301 decee85%1231 decee1/Month101/301 decee15/100 ml131 decee50/100 ml101/301 decee1.0 mg/L123 decee2/Weekly102/301 decee1.0 mg/L123 decee2/Weekly102/301 decee$

The italicized numeric values bracketed in the table and in subsequent text are code numbers that Department personnel utilize to code the monthly Discharge Monitoring Reports. **Footnotes:** See Page 6 of this permit for applicable footnotes.

A. EFFLUENT LIMITATIONS AND MONITORING REQUIREMENTS

Footnotes

- 1. **Sampling** All effluent monitoring shall be conducted at a location following the last treatment unit in the treatment process as to be representative of end-of-pipe effluent characteristics. Sampling and analysis must be conducted in accordance with; a) methods approved by 40 Code of Federal Regulations (CFR) Part 136, b) alternative methods approved by the Department in accordance with the procedures in 40 CFR Part 136, or c) as otherwise specified by the Department. Samples that are sent out for analysis shall be analyzed by a laboratory certified by the State of Maine's Department of Health and Human Services for waste water testing. Samples that are sent to another POTW licensed pursuant to *Waste discharge licenses*, 38 M.R.S. § 413 or laboratory facilities that analyze compliance samples in-house are subject to the provisions and restrictions of Maine Comprehensive and Limited Environmental Laboratory Certification Rules, 10-144 CMR 263 (last amended April 1, 2010). If the permittee monitors any pollutant more frequently than required by the permit using test procedures approved under 40 CFR part 136 or as specified in this permit, the results of this monitoring must be included in the calculation and reporting of the data submitted in the Discharge Monitoring Report.
- 2. Percent Removal The permittee must maintain a minimum of 85 percent removal of both BOD₅ and TSS for all flows receiving secondary treatment. The percent removal must be calculated based on influent and effluent concentration values. The permittee's wastewater treatment system does not contain an influent sampling location that is representative of raw wastewater conditions. Therefore, this permitting action authorizes the permittee to assume an influent BOD₅ and TSS concentration value of 286 mg/L for purposes of calculating the monthly percent removal value. See page 5 of fact sheet for a basis statement.
- 3. **Bacteria Limits** Fecal coliform bacteria limits and monitoring requirements are in effect between May 15th and September 30th of each year. The Department reserves the right to require year-round disinfection to protect the health, safety, and welfare of the public.
- 4. **Bacteria Reporting** The monthly average fecal coliform bacteria limitation is a geometric mean limitation and sample results must be reported as such.
- 5. Total residual chlorine (TRC) Limitations and monitoring requirements are applicable whenever elemental chlorine or chlorine-based compounds are being used to disinfect the discharge. The permittee shall utilize approved test methods that are capable of bracketing the TRC limitation in this permit. There shall be at least 14 days between sampling events.

B. ANNUAL DISCHARGE FEES

Pursuant to *Annual waste discharge license fees*, 38 M.R.S. § 353(B), the permittee is required to pay an applicable annual fee for discharges authorized by this permit. Failure to pay an annual fee within 30 days of the billing date of a permit is sufficient grounds for accruing interest charges, penalties or revocation of the permit.

C. NARRATIVE EFFLUENT LIMITATIONS

- 1. The permittee must not discharge effluent that contains a visible oil sheen, foam or floating solids at any time which would impair the uses designated for the classification of the receiving waters.
- 2. The permittee must not discharge effluent that contains materials in concentrations or combinations which are hazardous or toxic to aquatic life, or which would impair the uses designated for the classification of the receiving waters.
- 3. The permittee must not discharge effluent that causes visible discoloration or turbidity in the receiving waters that causes those waters to be unsuitable for the designated uses and characteristics ascribed to their class.
- 4. The permittee must not discharge effluent that lowers the quality of any classified body of water below such classification, or lowers the existing quality of any body of water if the existing quality is higher than the classification.

D. TREATMENT PLANT OPERATOR

The person that has direct responsibility for the operation of the treatment facility must be operated by a person holding a minimum of a **Maine Grade II** certificate (or higher) or must be a Maine Registered Professional Engineer pursuant to *Sewerage Treatment Operators*, 32M.R.S.. § 4171-4182 and *Regulations for Wastewater Operator Certification*, 06-096 CMR 531 (effective May 8, 2006). All proposed contracts for facility operation by any person must be approved by the Department before the permittee may engage the services of the contract operator.

E. AUTHORIZED DISCHARGES

The permittee is authorized to discharge only in accordance with: 1) the permittee's General Application for Waste Discharge Permit, accepted for processing on August 10, 2016. 2) the terms and conditions of this permit; and 3) only from Outfall #001. Discharges of wastewater from any other point source(s) are not authorized under this permit, and must be reported in accordance with Standard Condition D(1)(F), *Twenty-four hour reporting*, of this permit.

F. NOTIFICATION REQUIREMENT

In accordance with Standard Condition D, the permittee must notify the Department of the following:

- 1. Any substantial change in the volume or character of pollutants being introduced into the wastewater collection and treatment system by a source introducing pollutants to the system at the time of permit issuance.
- 2. For the purposes of this section, notice regarding substantial change must include information on:
 - a. The quality and quantity of wastewater introduced to the wastewater collection and treatment system; and
 - b. any anticipated impact caused by the change in the quantity or quality of the wastewater to be discharged from the treatment system.

G. SITE EVALUATION FOR TRANSFER OF OWNERSHIP

Pursuant to 38 M.R.S. § 413(3-A)(B)(1), except when it has been demonstrated within 5 years prior to a transfer of ownership of the property containing an overboard discharge, or some other time period acceptable to the Department, that there is no technologically proven alternative to an overboard discharge, prior to transfer of ownership of property containing an overboard discharge, the parties to the transfer must determine the feasibility of technologically proven alternatives to the overboard discharge that are consistent with the plumbing standards adopted by the Department of Health and Human Services pursuant to Title 22, section 42.

Notwithstanding other applicable provisions of 38 M.R.S. § 413(3-A), if an alternative to the overboard discharge is identified, the alternative system must be installed within 180 days of property transfer, except that, if soil conditions are poor due to seasonal weather, the alternative may be installed as soon as soil conditions permit.

H. OPERATION & MAINTENANCE (O&M) PLAN

The permittee must have a current written comprehensive Operation & Maintenance (O&M) Plan. The plan shall provide a systematic approach by which the permittee must at all times, properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit.

By December 31 of each year, or within 90 days of any process changes or minor equipment upgrades, the permittee must evaluate and modify the O&M Plan including site plan(s) and schematic(s) for the wastewater treatment facility to ensure that it is up-to-date. The O&M Plan must be kept on site at all times and made available to Department and USEPA personnel upon request.

Within 90 days of completion of new and or substantial upgrades of the wastewater treatment facility the permittee must submit the updated O&M Plan to their Department inspector for review and comment.

I. SEPTIC TANKS

- 1. Septic tanks and other treatment tanks must be regularly inspected (at least once per calendar year) and maintained to ensure that they are providing best practicable treatment. The permittee must maintain logs of inspections/maintenance that records the date, notes on observations, repairs conducted etc. The logs must be maintained on site at all times and made available to Department personnel upon request.
- 2. Tank contents must be removed whenever the sludge and scum occupies one-third of the tank's liquid capacity or whenever levels approach maximum design capacity. Following pumping, the tanks must be checked for damage at key joints and the inlet and outlet baffles, and repaired promptly if damaged. The permittee must keep a pumping log including the date of pumping, quantity of material removed, name and number of licensed contractor, and pumping frequency.

J. MONITORING AND REPORTING

Monitoring results obtained during the previous month must be summarized for each month and reported on separate Discharge Monitoring Report (DMR) forms provided by the Department and **postmarked on or before the thirteenth** (13th) day of the month or handdelivered to the Department's Regional Office such that the DMRs are received by the Department on or before the fifteenth (15th) day of the month following the completed reporting period.

J. MONITORING AND REPORTING (cont'd)

A signed copy of the DMR and all other reports required herein must be submitted to the Department assigned inspector (unless otherwise specified by the Department) at the following address:

Overboard Discharge Compliance Inspector Department of Environmental Protection Bureau of Land and Water Quality Division of Water Quality Management 17 State House Station Augusta, Maine 04333-0017

Alternatively, if submitting an electronic DMR, the completed DMR must be electronically submitted to the Department by a facility authorized DMR Signatory not later than close of business on the 15th day of the month following the completed reporting period. Hardcopy documentation submitted in support of the eDMR must be postmarked on or before the thirteenth (13th) day of the month or hand-delivered to the Department's Regional Office such that it is received by the Department on or before the fifteenth (15th) day of the month following the completed reporting period. Electronic documentation in support of the DMR must be submitted not later than close of business on the 15th day of the month following the completed reporting period.

K. REOPENING OF PERMIT FOR MODIFICATIONS

In accordance with 38 M.R.S. § 414-A(5) and upon evaluation of the tests results or monitoring requirements specified in Special Conditions of this permitting action, new sitespecific information, or any other pertinent test results or information obtained during the term of this permit, the Department may, at any time and with notice to the permittee, modify this permit to: (1) include effluent limits necessary to control specific pollutants or whole effluent toxicity where there is a reasonable potential that the effluent may cause water quality criteria to be exceeded; (2) require additional effluent or ambient water quality monitoring if results on file are inconclusive; or (3) change monitoring requirements or limitations based on new information.

L. SEVERABILITY

In the event that any provision or part thereof, of this permit is declared to be unlawful by a reviewing court, the remainder of the permit shall remain in full force and effect, and shall be construed and enforced in all aspects as if such unlawful provision, or part thereof, had been omitted, unless otherwise ordered by the court.

MAINE POLLUTANT DISCHARGE ELIMINATION SYSTEM PERMIT AND WASTE DISCHARGE LICENSE

FACT SHEET

Date: September 16, 2016

MEPDES PERMIT:ME0021229WASTE DISCHARGE LICENSE:W001689-5C-D-R

NAME AND ADDRESS OF APPLICANT:

NEWAGEN SEASIDE INN, INC. P.O. BOX 29 NEWAGEN, ME 04576

COUNTY:

LINCOLN COUNTY

NAME AND ADDRESS WHERE DISCHARGE OCCURS:

NEWAGEN SEASIDE INN, INC. 60 CAPE NEWAGEN ROAD NEWAGEN, ME 04576

RECEIVING WATER/CLASSIFICATION:

CAPE NEWEGAN HARBOR, ATLANTIC OCEAN/Class SB

COGNIZANT OFFICIAL AND TELEPHONE NUMBER:

Scott Larson, Owner (207) 633-4264 slarson@compassroseevents.com

1. APPLICATION SUMMARY

<u>Application</u>: On August 10, 2016, the Department accepted as complete for processing an application from the permittee for the renewal of combination Maine Pollutant Discharge Elimination System (MEPDES) permit ME0021229/Maine Waste Discharge License (WDL) W001689-5C-D-R (permit) which was issued by the Department on November 3, 2011, for a five year term. The permit issued on November 3, 2011, authorized the seasonal discharge (April 1st – November 30th) of no more than 12,500 gallons per day (gpd) of secondary treated wastewater from NEWAGEN SEASIDE INN, INCORPORATED to Cape Newagen Harbor, Class SB water, in Southport, Maine.

2. PERMIT SUMMARY

a. <u>Terms and conditions</u>

This permitting action is different from the November 3, 2011, permit in that it:

- 1. Reducing the monitoring frequency for total residual chlorine from 2/week to 1/month based on a statistical evaluation of the monitoring results for the previous 5 year period.
- 2. Modifying the discharge season to April 1st to November 30th to coincide with the motel's operational season.
- 3. Establishing a monitoring frequency of 1/month for pH.
- b. <u>Source description:</u> The discharge is from an inn complex on Southport Island consisting of one 26-room inn with private baths, an 80-seat restaurant and two public restrooms, three 2-bedroom housekeeping cottages, one 1-bedroom housekeeping cottage, one 7-bedroom staff quarter, and one 10-bedroom staff quarters.
- c. <u>Wastewater treatment:</u> The wastewater receives secondary treatment from an overboard discharge system consisting of two serially connected 6,000-gallon septic tanks, four 2,000 square foot sand filters and one 1,500-gallon four-tube tablet disinfection unit. The treated wastewater is discharged from the treatment system to Cape Newagen Harbor at a depth of 4 feet below the mean low water mark.
- d. <u>Replacement options:</u> Pursuant to 38 M.R.S. § 414-A(1-B), the Department finds that the discharge from an OBD meets the requirements of best practicable treatment for purposes of licensing when it finds that there are no technologically proven alternative methods of wastewater disposal consistent with the plumbing code adopted by the Department of Health and Human Services pursuant to Title 22, section 42 that will not result in an overboard discharge. The Department's finding must be based on documentation from a licensed site evaluator (LSE) having experience in designing replacement systems for overboard discharges and provided by the overboard discharge owner.

3. CONDITIONS OF PERMIT

Conditions of licenses, 38 M.R.S. § 414-A, requires that the effluent limitations prescribed for discharges, including, but not limited to, effluent toxicity, require the application of best practicable treatment (BPT), be consistent with the U.S. Clean Water Act, and ensure that the receiving waters attain the State water quality standards as described in Maine's Surface Water Classification System. In addition, *Certain deposits and discharges prohibited,* 38 M.R.S. § 420 and Department rule *Surface Water Toxics Control Program,* 06-096 CMR 530 (effective March 21, 2012), require the regulation of toxic substances not to exceed levels set forth in *Surface Water Quality Criteria for Toxic Pollutants,* 06-096 CMR 584 (effective July 29, 2012), and that ensure safe levels for the discharge of toxic pollutants such that existing and designated uses of surface waters are maintained and protected.

4. RECEIVING WATER QUALITY STANDARDS

Classification of estuarine and marine waters, 38 M.R.S. § 469(3-A) classifies all estuarine and marine waters lying within the boundaries of Lincoln County and that are not otherwise classified, which includes Southport at the point of discharge, as Class SB waters. *Standards for classification of estuarine and marine waters*, 38 M.R.S. § 465(B)(2) establishes classification standards for Class SB waters.

5. RECEIVING WATER QUALITY CONDITIONS

<u>The State of Maine 2012 Integrated Water Quality Monitoring and Assessment Report</u>, prepared by the Department pursuant to Sections 303(d) and 305(b) of the *Federal Water Pollution Control Act* lists Southwestern Southport Island (Southport) and Boothbay as:

Category 2: *Estuarine and Marine Waters Attaining Some Designated Uses, Insufficient Information for Other Uses.* Impairment in this context is in regard to the designated use of harvesting of shellfish which is prohibited due to overboard discharges.

Currently, the Maine Department of Marine Resources (DMR) shellfish harvesting Area 21-F, Southport and vicinity (Georgetown, Southport) is closed to the harvesting of shellfish. See **Attachment B** of this Fact Sheet for Area 21 F. DMR closes or restricts areas based on ambient water quality data that indicate the area did not meet or marginally met the standards in the National Shellfish Sanitation Program. In addition, DMR closes areas by default in the vicinity of outfall pipes associated with treated sanitary wastewater discharges in the event of a failure of the disinfection system. Therefore, Area 21 F remains closed as of the date of this permitting action.

Category 5-D: *Estuarine and Marine Waters Impaired by Legacy Pollutants*. All estuarine and marine waters capable of supporting American lobster are listed in Category 5-D, partially supporting fishing ("shellfish" consumption) due to elevated levels of PCBs and other persistent, bioaccumulating substances in lobster tomalley. **The Department has no information that the discharge from the permittee, as conditioned, causes or contributes to non-attainment of applicable Class SB water quality standards.**

6. EFFLUENT LIMITATIONS & MONITORING REQUIREMENTS

a. <u>Best Practicable Treatment (BPT):</u> The Department will find that the discharge meets the requirements of best practicable treatment pursuant to 38 M.R.S. § 414-A(1-B) for purposes of licensing when it finds that there are no technologically proven alternative methods of wastewater disposal consistent with the plumbing code adopted by the Department of Health and Human Services pursuant to Title 22, section 42 that will not result in an overboard discharge. Pursuant to *Overboard Discharges: Licensing and Abandonment*, 06-096 CMR 596(9), *Criteria and Standards for Waste Discharge Licenses* 06-096 CMR 524(2) (effective January 12, 2001) and 06-096 CMR 525(3)(III), BPT for overboard discharges is secondary treatment.

The secondary treatment regulation establishes technology-based effluent limitations for BOD₅, TSS, and pH which are discussed in more detail in the individual parameter sections below.

- b. <u>Flow</u>: The previous permitting action established, and this permitting action is carrying forward, a daily maximum flow limitation of 12,500 gallons per day (GPD), which is based on the design of the treatment facility, and a daily maximum discharge flow monitoring and reporting requirement.
- c. <u>Dilution Factors:</u> 06-096 CMR 530(4)(A)(2)(a) states that, "For discharges to the ocean, dilution must be calculated as near-field or initial dilution, or that dilution available as the effluent plume rises from the point of discharge to its trapping level, at mean low water level and slack tide for the acute exposure analysis, and at mean tide for the chronic exposure analysis using appropriate models determined by the Department such as MERGE, CORMIX or another predictive model." Based on the configuration of the proposed Outfall #001A and daily maximum discharge flow design criterion of 12,000 GPD (0.0125 MGD), the Department has made a best professional judgment that dilution factors are as follows:

Acute = 400:1 Chronic = 1,200:1 Harmonic mean¹ = 3,600:1

d. <u>Biochemical Oxygen Demand (BOD₅) and Total Suspended Solids (TSS):</u> The previous permitting action established, and this permitting action is carrying forward a modified seasonal requirement (April 1 – November 30), monthly average and weekly average technology-based effluent limits (TBELs) of 30 mg/L and 45 mg/L. For BOD₅ and TSS pursuant to the secondary treatment regulation at 40 CFR 133.102 and 06-096 CMR 525(3)(III). The previous permit also established daily maximum TBELs of 50 mg/L for both BOD₅ and TSS based on a Department best professional judgment of best practicable treatment for secondary treated wastewater. Monthly average, weekly average and daily maximum TBELs of 3.1 lbs./day, 4.7 lbs./day, and 5.2 lbs./day, respectively, established in the previous permitting action for BOD₅ and TSS were based on the daily maximum flow design criterion of 12,500 GPD (same as 0.0125 million gallons per day, MGD) and the applicable concentration limits.

¹The harmonic mean dilution factor is approximated by multiplying the chronic dilution factor by three (3). This multiplying factor is based on guidelines for estimation of human health dilution presented in the U.S. EPA publication, "*Technical Support Document for Water Quality-Based Toxics Control*" (Office of Water; EPA/505/2-90-001, page 88), and represents an estimation of harmonic mean flow on which human health dilutions are based in a riverine 7Q10 flow situation.

The mass-based limits were calculated as follows:

Monthly Average Mass Limit: (30 mg/L)(8.34 lbs./gallon)(0.0125 MGD) = 3.1 lbs./day

Weekly Average Mass Limit: (45 mg/L)(8.34 lbs./day)(0.0125 MGD) = 4.7 lbs./day

Daily Maximum Mass Limit: (50 mg/L)(8.34 lbs./day)(0.0125 MGD) = 5.2 lbs./day

A summary of BOD_5 and TSS data as reported on the DMRs submitted to the Department for the period of November 2011 – June 2016 is as follows:

$BOD_5 Mass (DMRs = 23)$

Value	Limit (lbs./day)	Range (lbs./day)	Mean (lbs./day)
Monthly Average	3.1	0.01 - 3.29	0.17
Weekly Average	4.7	0.01 - 3.80	0.30
Daily Maximum	5.2	0.23 - 3.90	1.20

BOD₅ concentration (DMRs = 23)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly Average	30	1 - 2.0	8.3
Weekly Average	45	1-49.0	8.3
Daily Maximum	50	1-49.0	8.5

TSS Mass (DMRs = 23)

Value	Limit (lbs./day)	Range (lbs./day)	Mean (lbs./day)
Monthly Average	3.1	0.01 - 3.49	0.30
Weekly Average	4.7	0.01 - 4.10	0.36
Daily Maximum	5.2	0.01 - 3.60	1.22

TSS concentration (DMRs = 23)

Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)
Monthly Average	30	2.0 - 35.0	12.4
Weekly Average	45	2.0 - 35.0	12.4
Daily Maximum	50	2.0 - 35.0	13.0

This permitting action carries forward the minimum monitoring frequency requirement of 1/Month for BOD5 and TSS. This permitting action carries forward the requirement for a minimum of 85% removal of BOD5 and TSS pursuant to 06-096 CMR 525(3)(III)(a)(3) and (b)(3). This permitting action establishes a minimum monitoring frequency requirement of once per month for percent removal. The permittee's wastewater treatment system does not contain an influent sampling location that is representative of raw wastewater conditions.

According to the USEPA's *Onsite Wastewater Treatment Systems Manual*, dated February 2002, table 3-7 entitled "Constituent Mass Loadings and Concentrations in Typical Residential Wastewater" high end range of values, influent values for BOD₅ and TSS may be assumed to be 286 mg/L. This permitting action also is carrying forward authorization for the Newagen Seaside Inn, Inc. to assume a midrange influent BOD5 and TSS concentration value of 286 mg/L for the purpose of calculating the monthly percent removal value until such time that the infrastructure is modified or replaced such that collection of a representative raw influent sample is practical.

e. <u>Fecal Coliform Bacteria:</u> The previous permitting action established, and this permitting action is carrying forward, seasonal monthly average and daily maximum concentration limits of 15 colonies/100 ml and 50 colonies/100 ml, respectively, for fecal coliform bacteria, which are consistent with the National Shellfish Sanitation Program. Bacteria limits are seasonal and apply between May 15 and September 30 of each year. However, the Department reserves the right to require year-round disinfection to protect the health, safety and welfare of the public.

A summary of effluent fecal coliform bacteria data as reported on the DMRs for the period December 2012 – December 2016 (applicable months only) follows:

Value	Limit (col/100 mL)	Range (col/100 mL)	Mean (col/100 mL)
Monthly Average	15	1 – 1,612	131
Daily Maximum	50	1 - 2,600	382

Fecal coliform bacteria (DMR = 19)

During this time period, the permittee reported a total of 8 excursions from the numeric bacteria limits.

g. <u>Total Residual Chlorine (TRC)</u>: The previous permitting action established a daily maximum water quality-based concentration limit of 1.0 mg/L for TRC with 2/Week monitoring requirement. Limitations on TRC are specified to ensure that ambient water quality standards are maintained at all times of the year and that BPT technology is being applied to the discharge. Department permitting actions impose the more stringent of either a water quality-based or BPT-based limit. With dilution factors as determined in Section 6(c) of this Fact Sheet, end-of-pipe (EOP) water quality-based concentration thresholds for TRC may be calculated as follows:

			Calculated	
Acute (A)	Chronic (C)	A & C	Acute	Chronic
Criterion	Criterion	Dilution Factors	Limit	Limit
0.013 mg/L	0.0075 mg/L	400:1(A) 1,200:1(C)	5.2 mg/L	9.0 mg/L

The water quality-based acute threshold of 1.0 mg/L is more stringent than either calculated water quality-based threshold above, and is therefore being carried forward in this permitting action. The Department is identifying that dechlorination may be required to comply with this water quality-based threshold.

A summary of the effluent TRC data as reported on the DMRs submitted to the Department for the period of June 2012 – November 2016 is as follows;

Total residual emotine (Diviks = 20)					
Value	Limit (mg/L)	Range (mg/L)	Mean (mg/L)		
Daily Maximum	1.0	0.00 - 2.50	0.292		

Total residual chlorine (DMRs = 20)

Given the significant dilution associated with the discharge a statistical evaluation conducted by the Department indicates the discharge does not exceed of have reasonable potential to exceed the critical acute and Chronic ambient water quality thresholds of 5.2 mg/L and 9.0 mg/L respectively. Therefore, the permit is reducing the monitoring frequency to 2/week.

- h. <u>pH:</u> The previous permitting action established, and this permitting action is carrying forward, a technology-based pH limit of 6.0 9.0 standard units (SU), which is based on 06-096 CMR 525(3)(III). This permitting action is establishing a monitoring frequency of 1/month for pH. The previous permit did not establish a monitoring frequency for pH. As a result of this there is no monitoring data available for this parameter for the monitoring period of November 2011 June 2016.
- i. <u>Whole Effluent Toxicity (WET), Priority Pollutant, and Analytical Chemistry Testing</u>: 38 M.R.S. § 414-A and 38 M.R.S. § 420 prohibit the discharge of effluents containing substances in amounts that would cause the surface waters of the State to contain toxic substances above levels set forth in Federal Water Quality Criteria as established by the USEPA. 06-096 CMR 530 sets forth effluent monitoring requirements and procedures to establish safe levels for the discharge of toxic pollutants such that existing and designated uses of surface waters are maintained and protected and narrative and numeric water quality criteria are met. 06-096 CMR 584 sets forth ambient water quality criteria (AWQC) for toxic pollutants and procedures necessary to control levels of toxic pollutants in surface waters.

06-096 CMR 530(2)(A) specifies the dischargers subject to the rule as, "...all licensed dischargers of industrial process wastewater or domestic wastes discharging to surface waters of the State must meet the testing requirements of this section. Dischargers of other types of wastewater are subject to this subsection when and if the Department determines

that toxicity of effluents may have reasonable potential to cause or contribute to exceedances of narrative or numerical water quality criteria."

06-096 CMR 530(2)(A) further specifies the criteria for the exemption of certain discharges from toxics testing as follows:

- (1) Discharges from individual discharge points licensed to discharge less than 50,000 gallons per day of solely domestic wastewater and with a chronic dilution factor of at least 50 to 1, provided no holding tank wastes containing chemicals are accepted by the facility;
- (2) Discharges from residential overboard discharge systems; or
- (3) Discharges from combined sewer overflow discharge points, provided the owner of the sewerage system is conducting or participating in a discharge abatement program.

The permittee's facility is exempt from the 06-096 CMR 530 requirements as the characteristics of the wastewater are considered to be similar to that of a residential overboard discharge. Additionally, the permit authorizes a discharge of less than 50,000 gpd of solely domestic wastewater and the chronic dilution factor is greater than 50:1. However, should there be a substantial change in the characteristics of the discharge in the future; the Department may reopen this permit pursuant to Special Condition K, *Reopening of Permit for Modifications*, to incorporate the applicable whole effluent toxicity (WET), priority pollutant or analytical testing requirements cited above.

j. <u>Nitrogen</u>: The permittee has not been conducting total nitrogen testing on its discharge to date. However, the USEPA requested the Department evaluate the reasonable potential for the discharge of total nitrogen to cause or contribute to non-attainment of applicable water quality standards, namely algal blooms, in marine waters. As of the date of this permitting action, the State of Maine has not promulgated numeric ambient water quality criteria for any of the nitrogen compounds. The Department has 50 total nitrogen data results collected on effluent from five municipally-owned treatment works and one industrial facility that discharge to Casco Bay. The mean discharge concentration was calculated to be 14.3 mg/L and is being considered by the Department as being representative of the total nitrogen concentration from a municipal wastewater treatment facility in the absence of facility specific effluent data.

Therefore, with an arithmetic mean total nitrogen discharge concentration of 14.3 mg/L and a near field dilution factor of 1,200:1 for the Newagen Seaside Inn, Inc. facility, an instream concentration can be calculated as follows:

Total nitrogen concentrations in effluent = 14.3 mg/LChronic dilution factor = 1,200:1

In-stream concentration after dilution: $\frac{14.3 \text{ mg/L}}{1,200} = 0.012 \text{ mg/L}$

Because nitrogen is not acutely toxic, the Department is considering a far-field dilution to be more appropriate when evaluating impacts of total nitrogen to a marine environment. Far field dilutions are significantly higher than the near-field dilution, ranging from 100 - 10,000 times higher depending on the location of the outfall pipe. With outfalls located in protected coves or small embayments without significant flushing, the far field dilutions factors would tend to be on the order of 100 - 1,000 times higher. With open ocean discharges, far field dilutions would tend to be 1,000 - 10,000 times higher.

The discharge from the permittee's facility to Atlantic Ocean in Southport would be consider a discharge to the open ocean. Thus, the far field dilution would likely be 1,000 - 10,000 times higher. As a result, the far-field dilution may be as high as 1,200,000:1, thereby limiting the increase in the ambient total nitrogen to 0.000012 mg/L based on the following calculation:

Total nitrogen concentrations in effluent = 14.3 mg/LChronic dilution factor = 1,116,000:1

In-stream concentration after dilution: $\frac{14.3 \text{ mg/L}}{1,200,000} = 0.000012 \text{ mg/L}$

The in-stream concentration is less than the Department and USEPA's best professional judgment based total nitrogen threshold of 0.45 mg/L considered necessary to protect aquatic life in the receiving water, using dissolved oxygen as the indicator of whether this designated use is achieved. Therefore, the Department is making a best professional judgment determination that the discharge of total nitrogen from the permittee's facility does not exhibit a reasonable potential to exceed applicable water quality standards for Class SB waters.

7. DISCHARGE IMPACT ON RECEIVING WATER QUALITY

As permitted, the Department has determined the existing water uses will be maintained and protected, and that the discharge as permitted will not cause or contribute to the failure of the waterbody to meet standards for Class SB waters.

8. PUBLIC COMMENTS

Public notice of this application was made in the <u>Boothbay Register</u> newspaper on or about August 12, 2016. The Department receives public comments on an application until the date a final agency action is taken on the application. Those persons receiving copies of draft permits shall have at least 30 days in which to submit comments on the draft or to request a public hearing, pursuant to <u>Application Processing Procedures for Waste Discharge Licenses</u>, CMR 522 (effective January 12, 2001).

9. DEPARTMENT CONTACTS

Additional information concerning this permitting action may be obtained from, and written comments sent to:

Aaron Dumont Division of Water Quality Management Bureau of Water Quality Department of Environmental Protection 17 State House Station Augusta, Maine 04333-0017 Telephone: (207) 592-7161 e-mail: <u>Aaron.A.Dumont@maine.gov</u>

10. RESPONSE TO COMMENTS

Reserved until end of comment period.

ATTACHMENT A



ATTACHMENT B

